

Amendments to the Claims:

A listing of the entire set of pending claims is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A method₁ comprising:

examining a video signal being generated by a computer system and applied to a display screen to locate image areas in which the video signal changes from frame to frame;

converting RGB pixel values in the video signal into luminance values (Y) in order to determine luminance values of Y as $R/4 + G/2 + B/8$, where R is a red component, G is a green component, and B is a blue component of the RGB pixel values;

defining a bounding box around the image areas to provide an area of interest; and
detecting a watermark in said area of interest.

2. (Previously presented) The method of claim 1, wherein the bounding box is rectangular.

3. (Previously presented) The method of claim 2, including scaling the area of interest to a predetermined resolution.

4. (Previously presented) The method of claim 1, including examining the video signal for further areas of interest, and detecting the watermark in the further areas of interest.

5. (canceled)

6. (canceled)

7. (currently amended) A computer system₁ comprising:

a display screen, and

a graphics card adapted to render a possibly watermarked multimedia signal in a window of the display screen, the multimedia signal being generated by an application executed by the computer system,

wherein the graphics card includes:

an RGB-to-Y converter that is configured to convert RGB pixel values in the video signal into luminance values (Y), wherein the RGB-to-Y converter is configured to determine luminance values of Y as $R/4 + G/2 + B/8$, where R is a red component, G is a green component, and B is a blue component of the RGB pixel values;

means for examining a video signal being applied to the display screen to locate image areas in which the video signal changes from frame to frame;

means for defining a bounding box around the image areas to provide an area of interest; and

a watermark detector for detecting the watermark in the area of interest.

8. (currently amended) A computer system, comprising:

a display engine that is configured to generate a video signal that includes one or more display windows;

an RGB-to-Y converter that is configured to convert RGB pixel values in the video signal into luminance values (Y), wherein the RGB-to-Y converter is configured to determine luminance values of Y as $R/4 + G/2 + B/8$, where R is a red component, G is a green component, and B is a blue component of the RGB pixel values;

a detector that is configured to identify locations of changes of picture element values in the video signal;

a processor that is configured to define a bounding box based on the locations of changes; and

a detector that is configured to detect a watermark in the video signal within the bounding box.

9. (Previously presented) The computer system of claim 8, including a resolution converter that is configured to scale at least a portion of the video signal.

10. (canceled)

11. (canceled)

12. (currently amended) The computer system of claim 8~~11~~, wherein the RGB-to-Y converter is configured to determine luminance values of Y based solely on the green component.

13. (Previously presented) The computer system of claim 8, wherein the bounding box is rectangular.

14. (Previously presented) The computer system of claim 8, wherein the detector, processor, and detector are configured to examine the video signal to locate further locations of further changes of picture element values, and to detect a further watermark in a bounding box based on the further locations of the further changes.

15. (Previously presented) The computer system of claim 8, further including one or more switches that are configured to control one or more outputs of the graphics card based on detection of the watermark.

16. (Previously presented) The computer system of claim 8, wherein the computer system is configured to control one or more external devices based on detection of the watermark.

17. (Previously presented) The computer system of claim 8, including a display device that is configured to receive the video signal and display the one or more display windows.

18. (Previously presented) The method of claim 1, wherein the video signal includes an RGB encoding of each frame, and the method includes converting the RGB encoding into a luminance encoding to facilitate detecting the watermark.

19. (Previously presented) The method of claim 1, including controlling a source of at least a portion of the video signal based on detecting the watermark.

20. (Previously presented) The method of claim 3, wherein the video signal includes an RGB encoding of each frame, and the method includes converting the RGB encoding into a luminance encoding to facilitate detecting the watermark.